

ABSTRACT

5       An electrical energy storage device for storing  
electrical energy and supplying the electrical energy to a  
driving motor at different power levels is disclosed. The  
electrical storage device has an energy battery connected  
to a power battery. The energy battery has a higher energy  
10 density than the power battery. However, the power battery  
can provide electrical power to the electrical motor at  
different power rates, thereby ensuring that the motor has  
sufficient power and current when needed. The power  
battery can be recharged by the energy storage battery. In  
15 this way, the power battery temporarily stores electrical  
energy received from the energy battery and both batteries  
can provide electrical energy at the different power rates  
as required by the motor. The energy storage device can be  
releasably connected to an external power source in order  
20 to recharge both batteries. Both batteries can be  
recharged independently to optimize the recharging and  
lifetime characteristics of the batteries.

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